

First Hit

L24: Entry 10 of 29

File: JPAB

Apr 5, 1984

PUB-NO: JP359059624A

DOCUMENT-IDENTIFIER: JP 59059624 A

TITLE: PREPARATION OF ANTIDIABETIC AGENT

PUBN-DATE: April 5, 1984

## INVENTOR-INFORMATION:

NAME

COUNTRY

FUJIMURA, HAJIME

SAWADA, TOKUNOSUKE

YAMAHARA, JOJI

INT-CL (IPC): A61K 35/78

## ABSTRACT:

PURPOSE: To obtain the titled extraction fraction and extract useful as an antidiabetic agent free from side effects, in high purity, by extracting the corns of hop with a specific extractant, and evaporating the extraction solvent to dryness.

CONSTITUTION: The corns of hop are extracted with an alcohol, the alcohol is distilled off, the residue is extracted with ether, the ether is distilled off, the residue is further extracted with alcohol, the alcohol is distilled off, and the residue is extracted with n-hexane. The treated residue is separated into n-hexane-soluble fraction and the insoluble fraction. n-Hexane is distilled off from the n-hexane-soluble fraction to obtain the objective active component. Other active component of antidiabetic agent can also be obtained from the n-hexane-insoluble fraction. The ingredient components which do not participate in the antidiabetic action can be removed from hop by the above extraction treatment with the extraction solvent, and a fraction having strong durg action can be obtained. The component is an antidiabetic agent of a new type free from hypoglycemic phenomenon and the increase in the lactic acid level in blood.

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## First Hit

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L26: Entry 2 of 2

File: DWPI

Apr 5, 1984

DERWENT-ACC-NO: 1984-123444

DERWENT-WEEK: 198420

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TITLE: Oral antidiabetic agent prodn. - by extracting hops with alcohol and concentrating extract

PATENT-ASSIGNEE: DAIGO EIYO KAGAKU (DAIG)

PRIORITY-DATA: 1982JP-0170278 (September 29, 1982)

## Search Selected

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PATENT-FAMILY:

PUB-NO

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## LANGUAGE

PAGES

MAIN-TPC



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April 5, 1984

007

## APPLICATION-DATA:

PUB-NO

APPL-DATE

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DESCRIPTOR

JP 59059624A

September 29, 1982

1982JP-0170278

INT-CL (IPC): A61K 35/78

ABSTRACTED-PUB-NO: JP 59059624A

BASIC-ABSTRACT:

Prodn. comprises (1) extracting hop fruit with an alcohol, (2) concentrating the extract, (3) extracting the residue with ether, (4) concentrating the extract, (5) extracting the residue with an alcohol and (6) concentrating the extract. Extn. is effected by maceration or digestion.

In an example five fol amt. of 50% methanol was added to dry hops, the mixt. kept at room temp. for 3 days and then filtered. The filtrate was concn. to give an extract (Fraction A) in 20-25% yield. In place of 50% methanol, working up with methanol and ethanol gave Fraction B (methanol extract) and Fraction C (ethanol extract) in 20-33% yield. The extracts (fractions A, B, C) (250 pts. wt.) were mixed well with potato starch (140 pts). After addn. of water, the mixt. was blended, granulated, classified with a sieve (No. 16 mesh) and mixed with 3% magnesium stearate (10 pts. wt.). The mixture was formulated into tablets (400 mg/tablet).

One or two tablets, as unit dosage, are administered two or three times daily. LD50 value of fraction A is above 80,000 mg/kg in rats (p.o.).

ABSTRACTED-PUB-NO: JP 59059624A

## EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: B04

CPI-CODES: B04-A07F; B12-H05;